

AMENDMENTSIn the Claims:

Please enter the following replacement claims, pursuant to 37 C.F.R. § 1.121(c), the replacement claims replace the correspondingly numbered prior pending claim.

All pending claims, whether added, rewritten, cancelled or amended, have been reproduced below for the convenience of the Examiner. Also included is a marked-up version of the prior pending claim showing the amendments made thereto.

Applicants respectfully submit that no amendments have been made to the pending claims for the purpose of overcoming any prior art rejections that would restrict the literal scope of the claims or equivalents thereof.

Please amend the claims as follows:

WHAT IS CLAIMED IS:

B<sup>1</sup> 7. (Twice Amended) A method of tuning an active radio frequency (RF) device, the method employing tuning an impedance matching circuit coupled to the device, the matching circuit including an adjustable length transmission line, the method comprising:  
determining the source and load impedance of the device;  
determining the characteristics of the matching circuit according to the initially determined source and load impedance;  
measuring a performance characteristic of the device; and  
adjusting the length of the transmission line to adjust the measured performance characteristic.

8. The method of claim 7, wherein the performance characteristic is input return loss.

9. The method of claim 7, wherein the performance characteristic is output return loss.

10. The method of claim 7, wherein the performance characteristic is gain.
  11. The method of claim 7, wherein the length of the transmission line is adjusted by laser trimming the transmission line.
  12. The method of claim 7, wherein the active device is a field effect transistor.
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13. (Twice Amended) A method of manufacturing a power amplifier, comprising:  
determining the source and load impedance of the device;  
determining the characteristics of the matching circuit according to the initially determined source and load impedance;  
coupling an active device to a matching circuit having the previously determined characteristics, the matching circuit comprising a transmission line having an adjustable length;  
measuring a performance characteristic of the device; and  
adjusting the length of the transmission line to achieve a change in the measured performance characteristic.

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14. The method of claim 13, wherein the device is a field effect transistor.
15. The method of claim 13, wherein the length of the transmission line is adjusted by laser trimming the transmission line.
16. The method of claim 13, wherein the performance characteristic is input return loss.
17. The method of claim 13, wherein the performance characteristic is output return loss.
18. The method of claim 13, wherein the performance characteristic is gain.

Claim Amendment Version With Markings to Show Changes Made to the Prior PendingClaims:

Please cancel claims 1-6 without prejudice.

7. **(Twice Amended)** A method of tuning an active radio frequency (RF) device, the method employing tuning an impedance matching circuit coupled to the device, the matching circuit including an adjustable length transmission line, the method comprising:

**determining the source and load impedance of the device;**

**determining the characteristics of the matching circuit according to the initially determined source and load impedance;**

measuring a performance characteristic of the device; and

adjusting the length of the transmission line to adjust the measured performance characteristic.

8. The method of claim 7, wherein the performance characteristic is input return loss.

9. The method of claim 7, wherein the performance characteristic is output return loss.

10. The method of claim 7, wherein the performance characteristic is gain.

11. The method of claim 7, wherein the length of the transmission line is adjusted by laser trimming the transmission line.

12. The method of claim 7, wherein the active device is a field effect transistor.

13. **(Twice Amended)** A method of manufacturing a power amplifier, comprising:

**determining the source and load impedance of the device;**

**determining the characteristics of the matching circuit according to the initially determined source and load impedance;**

coupling an active device to a matching circuit **having the previously determined characteristics**, the matching circuit comprising a transmission line having an adjustable length;